



# Cat<sup>®</sup> AP500

## Asphalt Paver

*The Cat<sup>®</sup> AP500 Asphalt Paver and SE47 Series Screeds are designed for urban streets, parking lots, rural roads and many other small to intermediate-type applications. This paver and screed combination provides high throughput capability as-well-as application versatility, easy set-up, and a wide paving range.*

### More Performance and Flexibility

- Powerful Cat<sup>®</sup> C4.4 engine delivers 110 kW (148 hp) of power that supports increased feeder system capacity as well as hopper inserts for continuous paving
- Tight 90° turning capability enables the paver to rotate and cover tracks on a return paving pass
- Standard paving range utilizing the SE47 V screed is 2.4 m - 4.7 m (8' - 15'6") with a maximum width of 6.1 m (20')
- Standard paving range utilizing the SE47 FM screed is 2.4 m - 4.7 m (8' - 15'6") with a maximum width of 6.2 m (20' 6")
- Paving depths up to 250 mm (10") supports aggregate paving applications

### Transport Made Easy

- Machine weight of less than 14.5 mt (32,000 lb) paver and screed combination enables easy transport on a variety of trailer types
- Length of less than 5.65 m (18' 6") and width of 2.6 m (8' 6") accommodates machine transport without special permits
- The front-loading angle of 17° and high front bumper clearance reduces the need for additional blocking when loading onto various trailer designs
- Front, middle, and rear tie-down locations make securing the paver highly efficient for quick travel to the next job site

### Exceptional Mobility With Fast Travel Speed

- Wheel undercarriage provides exceptional mobility and fast travel speeds for unmatched maneuverability around the job site
- Excellent traction is delivered through the 14.00x20 sand-rib or 17.5 R25 radial drive tires
- Front-wheel assist option provides power to the rear set of bogie wheels for excellent performance in tough conditions
- All-wheel drive option utilizes a flow divider to deliver power to both sets of front bogie wheels for additional pulling power
- High ground clearance of 197 mm (7.8") helps avoid storm drains, curbs, and other obstacles

### Smooth Material Flow

- Optimized hopper design with low truck entry height and short front apron enhances material flow while simplifying clean-out
- Enhanced feeder system with 355 mm (14") diameter augers provides consistent material flow across the screed for efficient flow at both narrow and wide paving widths
- Confined auger chamber keeps material moving and helps eliminate stagnate cold patches
- Independent control of each material feed sensor when utilizing a cut-off shoe, simply turn off the sensor for manual proportional feed control



# Cat® AP500 Asphalt Paver

---

## More Comfort

- Ventilation system draws fumes from the auger chamber and redirects them away from the operator for a more comfortable working environment
- Dual independent consoles provide operation from either side of the machine for optimal visibility to curbs, edges, and transverse joints
- Dual independent seats swing out 40° beyond the platform for good visibility to curbs and obstacles
- Optimized height and integrated exhaust provide unobstructed visibility around the machine
- Optional screed and paver mounted umbrellas offer protection from direct sunlight
- Heated seat option delivers comfort in cool weather
- High visibility 76 mm (3") seat belt assists with crew safety compliance

## Easy Viewing Displays, Simple Operation

- High-definition, touchscreen displays with adjustable brightness control for all types of lighting conditions, including direct sunlight
- High-visibility touch screen operating display with simplified menu structures, intuitive graphics, and short-cut keys help simplify machine adjustments
- Single-touch functions from main screen include screed heat, wash-down system, vibratory activation, ventilation system, accessory panel
- Operating displays can be tailored to specific language requirements with multiple options available
- Wash-down system includes level indication

## Screeds That Deliver Quality

- SE-Series screeds deliver excellent ride, density, and mat texture while providing superior adjustment capabilities
- Screeds with front-mounted extenders and rear-mounted extenders are available
- Cat® Grade Control or Basic Grade Control options available
- Refer to the screed "Key Features" for more details

## Low Owning and Operating Costs

- Durable Cat C4.4 engine provides 110 kW (148 hp) of power and meets U.S. EPA Tier 4 Final emission standards
- Exclusive Eco-mode and Automatic Engine Speed Control reduce fuel consumption and lower sound levels for better comfort and communication
- Conveyor bed plates and chain guards designed to minimize labor requirements and provide lower cost replacement
- Maintenance-free high torque motors reduce service requirements for the auger and conveyor drive systems

## Cat Electronics

- Cat Electronic Control Modules (ECM) and Electronic Technician (ET) compatibility simplifies diagnostics and trouble-shooting procedures
- Dedicated auto reset circuit breaker for material sensors

## Product Link™ Elite

- Make timely, fact-based decisions to maximize efficiency, improve productivity, and lower owning and operating costs
- Easily track location, machine hours, fuel usage, and idle time
- Diagnostic codes are made available through online web applications
- Remote flash works around your schedule to ensure your machine's software is up to date for optimal performance

## Service and Repair Kits

- Paver and screed service and repair kits include all the parts necessary to complete specific repairs
- Cat genuine parts are manufactured to precise specifications and designed for optimal performance and maximum uptime
- Repair kits are identified by a single part number to make ordering easy
- Select kits are available to be packaged as a kit by the dealer for over-the-counter purchases or through the dealer service shop

## Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
<b>OPERATING ENVIRONMENT</b>		
Canopy		✓
Deceleration pedal		✓
Dual operating consoles	✓	
Heated seat		✓
Steering guide	✓	
Umbrella – tractor or screed		✓
Ventilation system	✓	
Side shields		✓
Windshield – requires canopy		✓

<b>TECHNOLOGY</b>		
Cat® Grade Control		✓
Basic Grade Control		✓
Product Link™ Elite 643 (cellular)	✓	
Product Link Elite 683 (cellular/satellite)		✓

<b>POWERTRAIN</b>		
All-wheel drive		✓
Ballast – front weights		✓
Cat C4.4 – four-cylinder	✓	
Cooling fan – variable speed	✓	
Front-wheel assist		✓
Radial drive tires		✓
Sand-rib drive tires		✓

<b>ELECTRICAL SYSTEM</b>		
1400 CCA battery	✓	
150-amp alternator	✓	
12-volt charging system	✓	
Automotive-type fuse system	✓	
Auto-reset breaker for material feed sensors	✓	
Battery – maintenance-free	✓	
Cat Electronic Technician (Cat ET)	✓	

	Standard	Optional
<b>MATERIAL DELIVERY</b>		
Auger extensions – 0.15 m (6")	✓	
Auger extensions – 0.46 m (1.5')		✓
Mainframe extensions – power		✓
Mainframe extensions – manual		✓
Material feed sensors – contact	✓	
Material feed sensors – sonic		✓
Push-roller – adjustable	✓	
Truck hitch		✓
Wash-down pump and reel		✓

<b>SERVICE AND MAINTENANCE</b>		
Hydraulic oil – Cat HYDO™ Advanced	✓	
Remote access drains	✓	
Remote flash	✓	
Service repair kits	✓	
Sampling ports for Scheduled Oil Sampling (S-O-S <sup>SM</sup> )	✓	
Sight Gauges - engine coolant, hydraulic oil	✓	

<b>SAFETY</b>		
Alarm – back-up	✓	
Horn – warning (front & rear)	✓	
Lights – LED Working	✓	
Lights – LED Rooding		✓
Mirror package	✓	
Warning beacon – LED		✓

# Cat® AP500 Asphalt Paver

## Technical Specifications

### PowerTrain

Engine Model	Cat C4.4	
Engine power @ 2200 rpm (ISO 14396-2002)	110 kW	148 hp
<b>Meets U.S. EPA Tier 4 Final emission standards.</b>		
Speed – paving	61 m/min	200 ft/min
Speed – travel	16 km/hr	10 mph
Tire size	17.5 R25	

### Service Refill Capacities

Maximum throughput capacity	1000 Tonnes	1100 US Tons
Hopper capacity	6.1 m <sup>3</sup>	215 ft <sup>3</sup>
Fuel tank	200 L	53 gal
Cooling system	24 L	6.3 gal
Engine oil	9 L	2.4 gal
Hydraulic tank	121 L	32 gal
Diesel Exhaust Fluid (DEF) tank	19 L	5 gal
Washdown spray tank	32 L	8.5 gal

### Machine Weight

Paver only (shipping)	11 481 kg	25,311 lb
w/SE47 V screed (operating)	14 409 kg	31,772 lb
w/SE47 FM screed (operating)	14 518 kg	32,012 lb

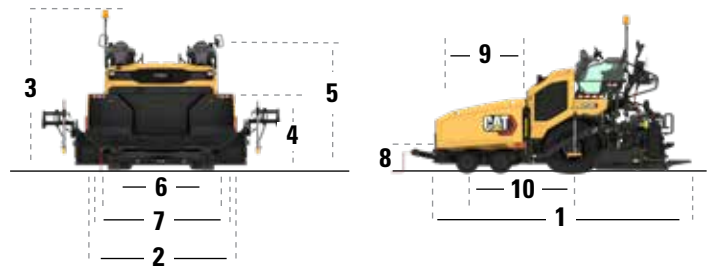
*Operating Weights are approximate and include coolant, lubricants, full fuel tank, 75 kg (165 lb) operator, and grade control components.*

### Paving Range

<b>SE47 V</b>		
Standard range	2.4 m - 4.7 m	8' - 15' 6"
Maximum width w/extensions	6.1 m	20'
<b>SE47 FM</b>		
Standard range	2.4 m - 4.7 m	8' - 15' 6"
Maximum width w/extensions	6.2 m	20' 6"

### Dimensions

1	Operating length w/ SE47 V screed	5909 mm	19' 4"
	Shipping length w/ SE47 V screed	5648 mm	18' 6"
	Operating length w/ SE47 FM screed	5865 mm	19' 3"
	Shipping length w/ SE47 FM screed	5630 mm	18' 6"
2	Operating width (hoppers lowered)	3281 mm	10' 9"
3	Operating height (beacon)	3352 mm	11'
4	Operating platform height	1731 mm	5' 8"
5	Transport height (steering wheel)	2890 mm	9' 6"
6	Transport width w/end gates	2590 mm	8' 6"
7	Truck entry width	3149 mm	10' 4"
8	Truck entry height (hopper)	537 mm	21"
	Truck entry height (apron)	507 mm	20"
	Ground clearance	197 mm	7.8"
9	Hopper length	1925 mm	6' 4"
10	Axle to axle - center drive to front idler	2338 mm	92"
	Auger diameter	355 mm	14"



## Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit [www.caterpillar.com/en/company/sustainability.html](http://www.caterpillar.com/en/company/sustainability.html).

### ENGINE

- The Cat® C4.4 engine is available in configurations that meet U.S. EPA Tier 4 Final emission standards.
- Cat U.S. EPA Tier 4 Final diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
  - ✓ 20% biodiesel FAME (fatty acid methyl ester)\*
  - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

*\*Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel.*

### PAINT

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
  - Barium < 0.01%
  - Cadmium < 0.01%
  - Chromium < 0.01%
  - Lead < 0.01%

### SOUND PERFORMANCE

With cooling fan speed at 70% of maximum value, engines meeting U.S. EPA Tier 4 Final:

---

Operator Sound Pressure Level – 89 dB(A) EN 500-6:2006+A1:2008, Annex B

---

Exterior Sound Power Level – 104 dB(A) EEN 500-6:2006+A1:2008, Annex B

---

- Hearing protection may be needed when operating with an open operator station for extended periods or in a noisy environment.

### OILS AND FLUIDS

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

### FEATURES AND TECHNOLOGY

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
  - Eco-mode operates at a lower rpm to minimize fuel consumption
  - Automatic engine speed control modifies engine speed when moved to and from neutral to enhance fuel efficiency
  - Advanced Eco-mode combines automatic engine speed control and Eco-mode to modify engine speed based on engine load, conserving fuel and increasing efficiency
  - Extended maintenance intervals reduce fluid and filter consumption





# Cat® AP500 Asphalt Paver

---

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com)

© 2022 Caterpillar  
All rights reserved

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Corporate Yellow," the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

QEHQ2895-02 (10-2022)  
Build Number:07A  
(North America)

